



NORTHERN KENTUCKY

INDEPENDENT DISTRICT

HEALTH DEPARTMENT



NORTHERN KENTUCKY
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Influenza Surveillance

Joyce Rice, RN, MSPH
Epidemiology Manager/Regional
Epidemiologist



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AAAAHH - CHOOO!

FLU





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HEALTH DEPARTMENT**





NORTHERN KENTUCKY INDEPENDENT DISTRICT HEALTH DEPARTMENT

NKYHEALTH.ORG

Epidemiology Services
7505 Burlington Pike
Florence, Kentucky 41042
(859) 363-2070

In an effort to keep the Medical Community aware of the Influenza activity in our district, Boone, Campbell, Grant and Kenton counties, the Epidemiology Services of the NKIDHD will distribute a weekly report of the number of cases reported to us.

As of December 12, 2003 we have received three culture confirmed cases, all in adults, as well as, thirty reports of positive rapid testing. Twenty-three were in children under 18 years of age and seven were in adults.

In order to identify the strain of influenza in our area we ask that viral cultures be obtained on positive rapid antigen tests as well as any influenza like illnesses seen and sent to the Kentucky State lab for serotyping. The state will provide culture kits with prepaid postage for this purpose. Culture kits can be obtained through the NKIDHD, by contacting Epidemiology Services at (859) 363-2070.



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Again this year, in an effort to keep the Medical Community aware of the Influenza activity in our district, Boone, Campbell, Grant and Kenton counties, the Epidemiology Services of the Northern Kentucky Health Department will distribute a weekly report of the number of cases reported to us. The Influenza surveillance season began officially on September 28, 2005 and will continue through May 27, 2006.

For the week ending _____ 2006 we have received _____ culture confirmed cases, all in adults, as well as, _____ reports of positive rapid testing. _____ were in children less than 18 years of age and _____ were in adults.

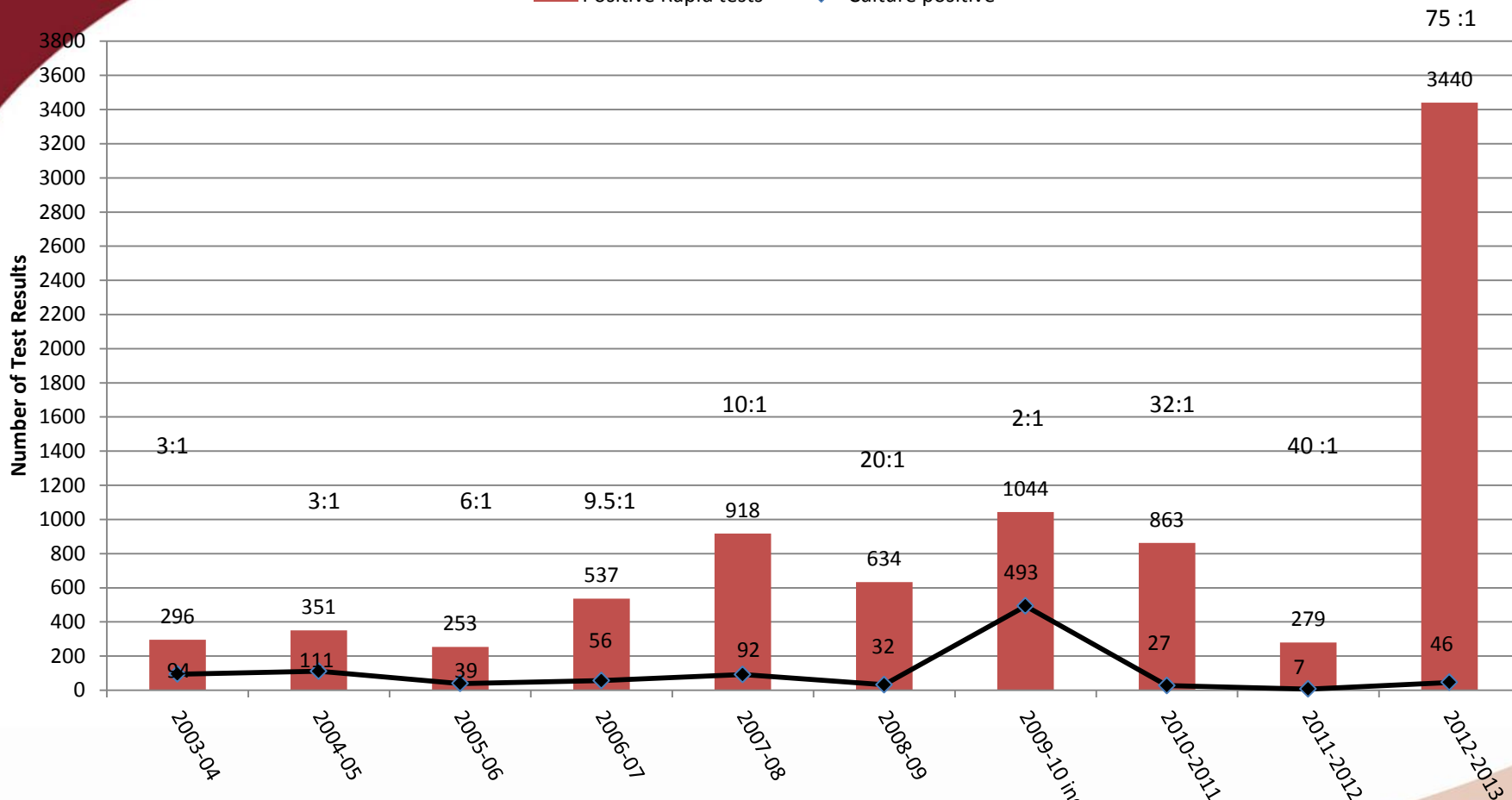
As of _____, 2006 the Epidemiology Services of the Northern Kentucky Health Department have received _____ reports of culture confirmed influenza cases and _____ reports of positive rapid tests.

If you are in need of Cover Your Cough Posters please contact Tammy Hardy at 363-2070.

This is an unofficial count and the information sent to the State Health Department may differ from what is presented here. As you know, positive cultures are required to be reported to the health department. However positive influenza rapid tests are reported to us as a courtesy. To report cases of influenza please call Joyce Rice, RN, Communicable Disease Nurse at 363-2073. Please include name, age, county, and type, A or B, when reporting positive rapid tests. We appreciate this, as it is one of the tools to help us understand flu activity in our community.

Influenza Tests Reported in NKY 2003 to 2013

Positive Rapid tests Culture positive



Influenza Season



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Syndromic Surveillance

RODS => Epi Center

- RODS
- Real time Outbreak and Disease surveillance
- NKY-2003
 - ED visits 2003 to 2006
 - Over the counter medication sales 2003 to 2009
- Epi Center
- ED visits by complaint 2007 to present



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WEEKLY LOCAL HEALTH DEPARTMENT
INFLUENZA SURVEILLANCE 2003-2004 REPORT FORM

Health Department Kenton Contact Joyce Rice
Phone 859/363-2073 Ext. Fax 859/578-3689 E-mail Global
Back Up Kathy Moher Phone 859/363-2072 Ext.
Fax 859/578-3689 E-mail Global
Alternate Carol Daniel Phone 859/363-2076 Ext.
Fax 859/578-3689 E-mail Global

Total: NH Beds 60 School Enrollment 4,330

Outbreak Baseline: NH 2 SCH 510 MD 3 HOS

10-03-03	NH <u>0</u> SCH <u>274</u> MD <u>0</u> HOS <u> </u>	Comments <u> </u>
10-10-03	NH <u>0</u> SCH <u>200</u> MD <u>0</u> HOS <u> </u>	Comments <u> </u>
10-17-03	NH <u>0</u> SCH <u>265</u> MD <u>0</u> HOS <u> </u>	Comments <u> </u>
10-24-03	NH <u>0</u> SCH <u>279</u> MD <u>0</u> HOS <u> </u>	Comments <u> </u>
10-31-03	NH <u>0</u> SCH <u>259</u> MD <u>0</u> HOS <u> </u>	Comments <u> </u>
11-07-03	NH <u>0</u> SCH <u>--</u> MD <u>0</u> HOS <u> </u>	Comments <u> </u> If school closed Nov. 4th Elections, No rpt
11-14-03	NH <u>0</u> SCH <u>253</u> MD <u>0</u> HOS <u> </u>	Comments <u> </u>
11-21-03	NH <u>0</u> SCH <u>300</u> MD <u>0</u> HOS <u> </u>	Comments <u> </u>
11-28-03	NH <u>0</u> SCH <u>356</u> MD <u>1</u> HOS <u> </u>	Comments <u> </u> Report due by 12 pm Dec. 1 st
12-05-03	NH <u>0</u> SCH <u>249</u> MD <u>0</u> HOS <u> </u>	Comments <u> </u>
12-12-03	NH <u>0</u> SCH <u>379</u> MD <u>2</u> HOS <u> </u>	Comments <u> </u>
12-19-03	NH <u>0</u> SCH <u>410</u> MD <u>15</u> HOS <u> </u>	Comments <u> </u> due by 2pm Fri
12-26-03	NH <u>0</u> SCH <u>--</u> MD <u>19</u> HOS <u> </u>	Comments <u> </u> Late reports due by 12 pm Dec. 29th
01-02-04	NH <u>0</u> SCH <u>--</u> MD <u>9</u> HOS <u> </u>	Comments <u> </u> Late reports due by 12 pm Jan. 5th
01-09-04	NH <u>0</u> SCH <u>265</u> MD <u>1</u> HOS <u> </u>	Comments <u> </u>
01-16-04	NH <u>0</u> SCH <u>236</u> MD <u>0</u> HOS <u> </u>	Comments <u> </u>
01-23-04	NH <u>0</u> SCH <u>308</u> MD <u>0</u> HOS <u> </u>	Comments <u> </u>
01-30-04	NH <u>0</u> SCH <u>411</u> MD <u>0</u> HOS <u> </u>	Comments <u> </u>
02-06-04	NH <u>0</u> SCH <u>311</u> MD <u>0</u> HOS <u> </u>	Comments <u> </u>
02-13-04	NH <u>0</u> SCH <u>262</u> MD <u>0</u> HOS <u> </u>	Comments <u> </u>
02-20-04	NH <u>0</u> SCH <u>302</u> MD <u>0</u> HOS <u> </u>	Comments <u> </u>
02-27-04	NH <u>0</u> SCH <u>341</u> MD <u>0</u> HOS <u> </u>	Comments <u> </u>
03-05-04	NH <u>0</u> SCH <u>326</u> MD <u>0</u> HOS <u> </u>	Comments <u> </u>
03-12-04	NH <u>0</u> SCH <u>283</u> MD <u>0</u> HOS <u> </u>	Comments <u> </u>
03-19-04	NH <u>0</u> SCH <u>406</u> MD <u>0</u> HOS <u> </u>	Comments <u> </u> Bad weather
03-26-04	NH <u>0</u> SCH <u>292</u> MD <u>0</u> HOS <u> </u>	Comments <u> </u>
04-02-04	NH <u>0</u> SCH <u>--</u> MD <u>0</u> HOS <u> </u>	Comments <u> </u> sping break
04-09-04	NH <u>0</u> SCH <u>242</u> MD <u>0</u> HOS <u> </u>	Comments <u> </u>
04-16-04	NH <u>0</u> SCH <u>334</u> MD <u>0</u> HOS <u> </u>	Comments <u> </u> Late reports due by 2 pm Apr 19th
04-23-04	NH <u>0</u> SCH <u>290</u> MD <u>0</u> HOS <u> </u>	Comments <u> </u>
04-30-04	NH <u>0</u> SCH <u>189</u> MD <u>0</u> HOS <u> </u>	Comments <u> </u>
05-07-04	NH <u>0</u> SCH <u>193</u> MD <u>0</u> HOS <u> </u>	Comments <u> </u>
05-14-04	NH <u>0</u> SCH <u>306</u> MD <u>0</u> HOS <u> </u>	Comments <u> </u>
05-21-04	NH <u>0</u> SCH <u>276</u> MD <u>0</u> HOS <u> </u>	Comments <u> </u> Late reports due before 9 am May 25th
05-28-03	NH <u>0</u> SCH <u>----</u> MD <u>0</u> HOS <u> </u>	Comments <u> </u> school out

THIRTH KENTUCKY
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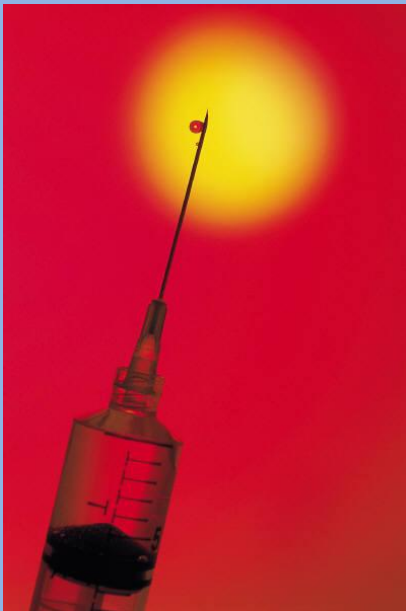
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Northern Kentucky Health Dept.
Influenza 2012–2013

Flu News & Other
Surveillance Stories

Kelly Giesbrecht, DVM, MPH
Senior Epidemiologist



Flu News & Other Surveillance Stories

- Flu News
- Influenza 2012-2013
 - Week of the Dark Cloud
- Syndromic Surveillance
- Community News



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Northern Kentucky Influenza Activity

MMR Week 17
Apr. 27, 2013

FAST FACTS

Totals: Ending Apr. 27, 2013:

- 45 culture confirmed influenza reports:
 - < 18 yrs: 23
 - > 18 yrs: 22
- 3439 positive rapid tests
 - < 18 yrs: 1896
 - > 18 yrs: 1511
 - Unknown: 32
- Infl. A: 2211
- Infl. B: 1217
- A & B: 45
- Unknown: 11

For the week ending
Apr. 27, 2013:

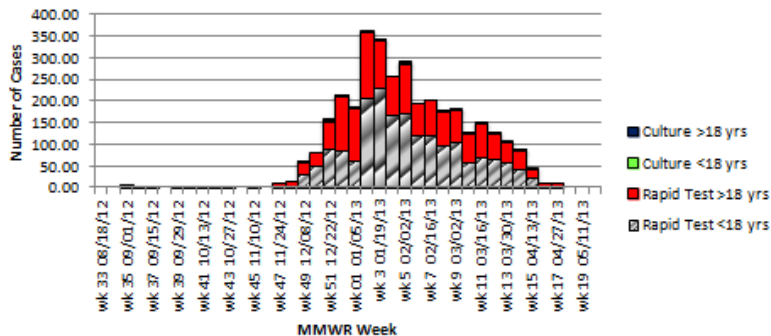
- 0 culture-confirmed
- 10 reports of positive rapid flu tests

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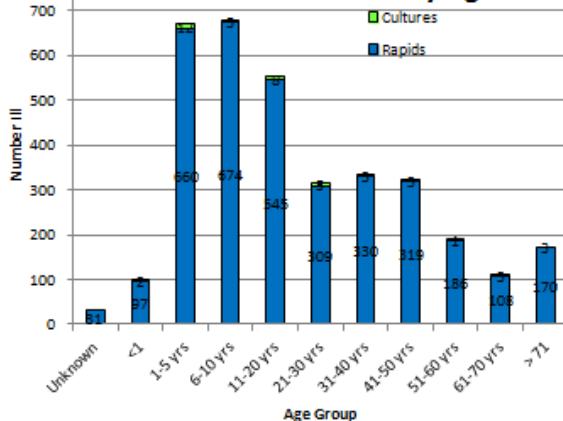
To report cases of influenza please call Kelly Giesbrecht at 859.363.2065. Please include name, age, county, ZIP code, and type, A or B, when reporting positive rapid tests. We appreciate this, as it is one of the tools to help us understand flu activity in our community. Attached is an optional reporting sheet to use for reporting results from rapid tests.

Flu continues to stay low in Northern Kentucky!
10 cases were reported for week 17, with 3 hospitalizations.
Ohio flu activity has been changed from "Regional" to "Local".

**Influenza Cases in No. KY
by MMWR Week**



Influenza 2012-2013 By Age



THE REGION

CDC's Flu View:
www.cdc.gov/flu/weekly/usmap.htm
tracks nationwide flu activity levels.

Our region week 17,
ending Apr. 27,
2013:

- Kentucky: Sporadic
- Ohio: Local
- Indiana: Sporadic

Flu News
Weekly Updates
To
Providers
By
FAX &
E-mail

Flu News Content

- Fast Facts:
 - Totals:
 - Rapids & Confirmed
 - < 18 yrs; > 18 yrs
 - Type: A, B, A&B, Unk
 - Last Week:
 - Culture-Confirmed
 - Rapids
- Graphs
 - Epi Curve
 - Flu by County
 - Flu by Age
 - Hospitalizations
 - Outpatient Visits vs Emergency Dept.



Flu News Content

- Update what's happening in our region
 - Ky
 - Ohio
 - Indiana
 - Give Link to CDC:
“Flu View”
- Box at the top for:
 - Overall situational Summary
 - Timely Information



<http://www.cdc.gov/flu/weekly/>



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Rapid Tests vs Culture

- Cultures are more accurate
- When Flu is circulating rapid tests are considered to have more False-negative than False-positive (Redbook)



Without Rapid testing we would
not have an
effective flu program!



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Information is Organized in Excel

- Create a Line List
 - Name
 - Age
 - Date Report & Test Date
 - A or B Flu
 - County
 - Zip Code
 - Other: Medical Conditions, Smoking status,
 - Tamiflu, Vaccination history

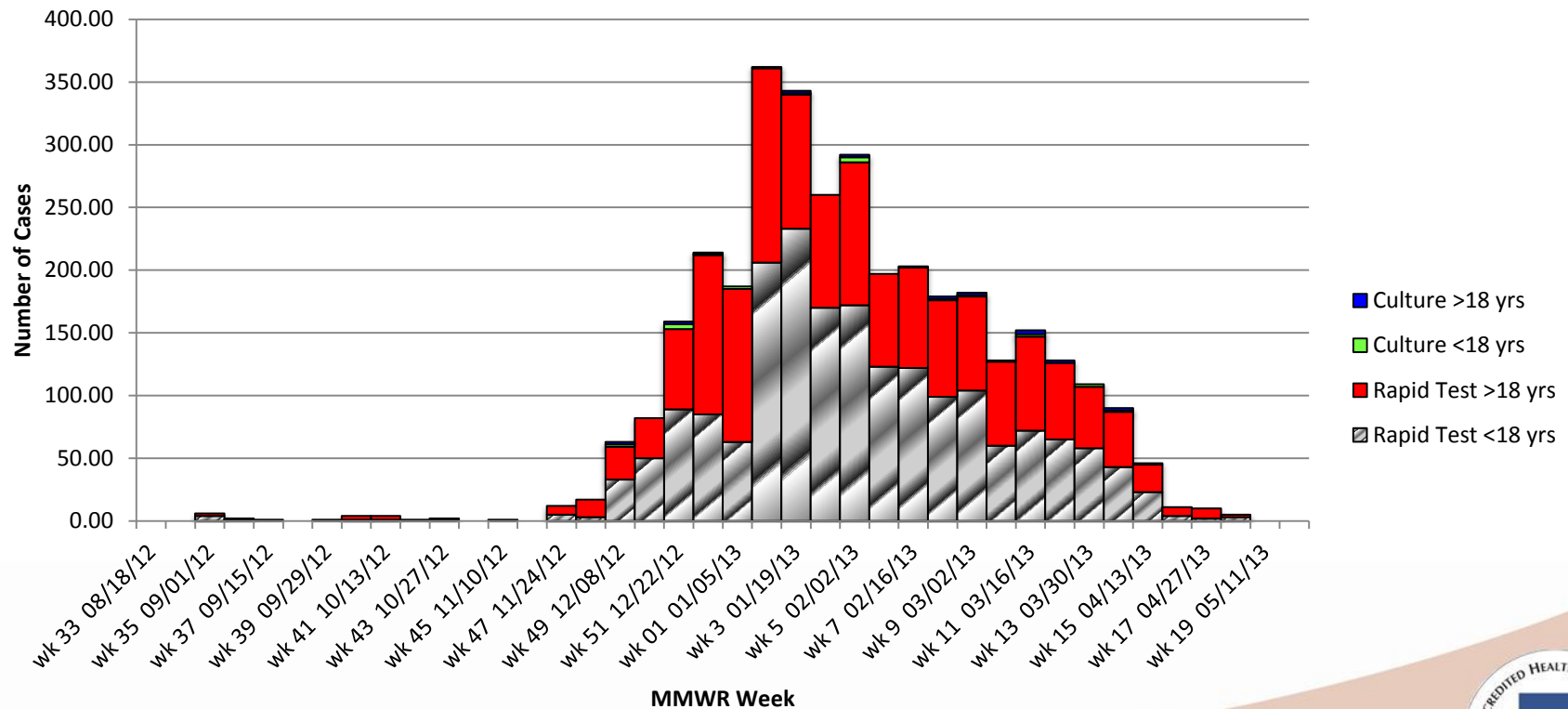


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2012 Influenza Epi-Curve

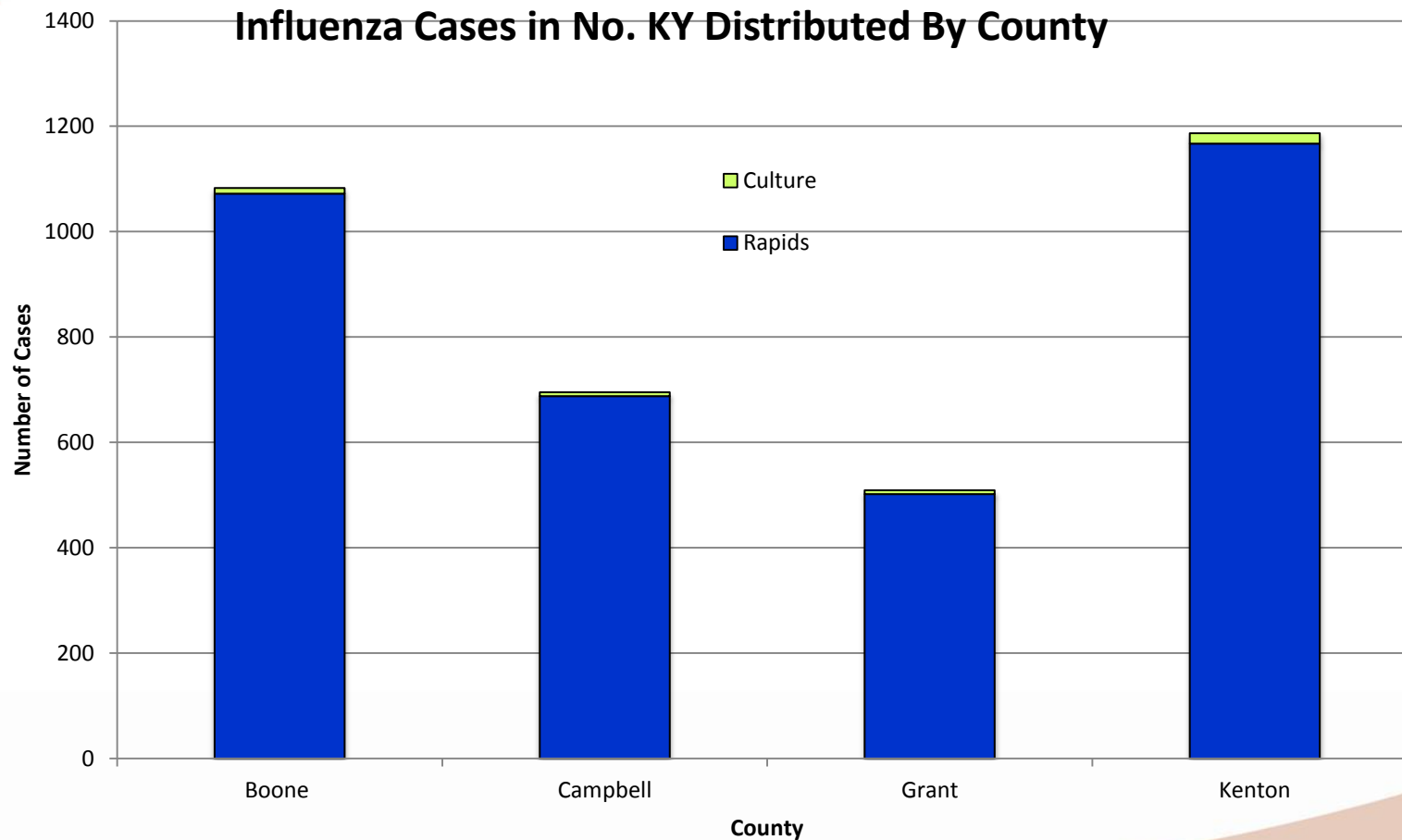
Influenza Cases in No. KY
by MMWR Week



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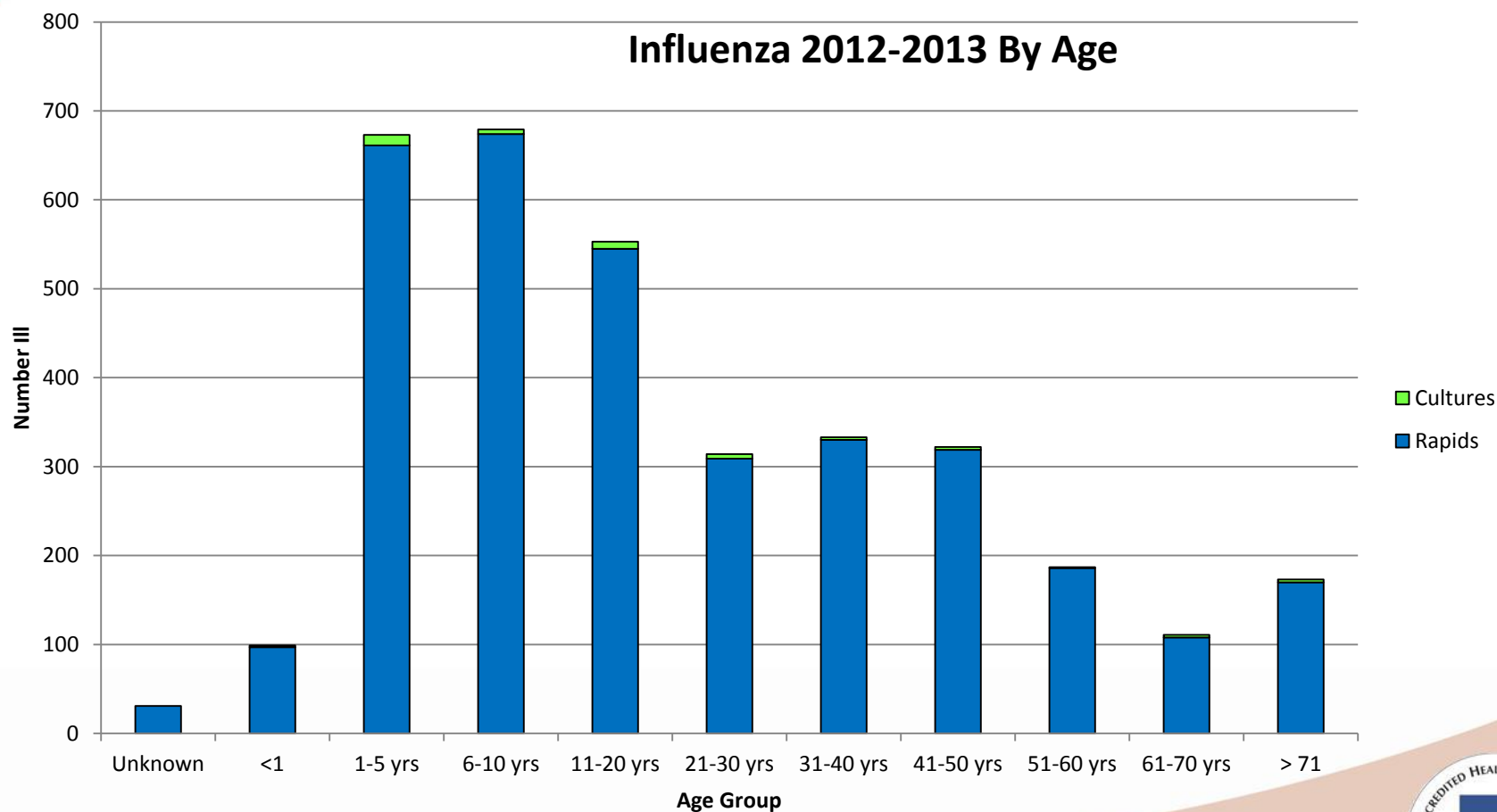
Flu by County, 2012



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Flu by Age, 2012



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Positive Rapid Flu Tests

Questions? Call: 859-363-2065

[illegible]

Office Name:



The Week of the Black Cloud

Week 12: March 17–23

Noticed many of the Reports mentioned
Hospitalizations (*Thank you Emergint!*)

- Decided to look at all hospitalization data
- Noted 25% for that week
- Had 5 Deaths in a 7 day period (Influenza B)

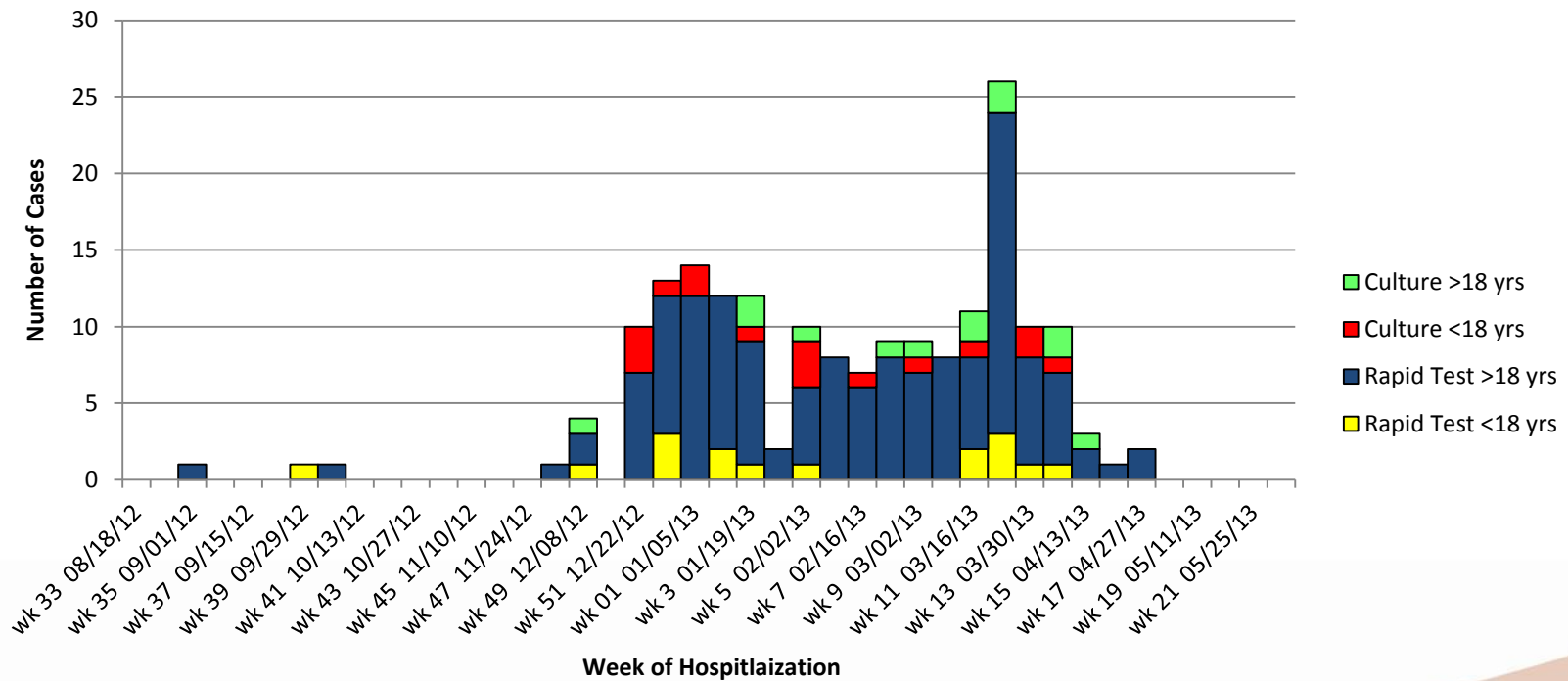


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Flu by Hospitalizations

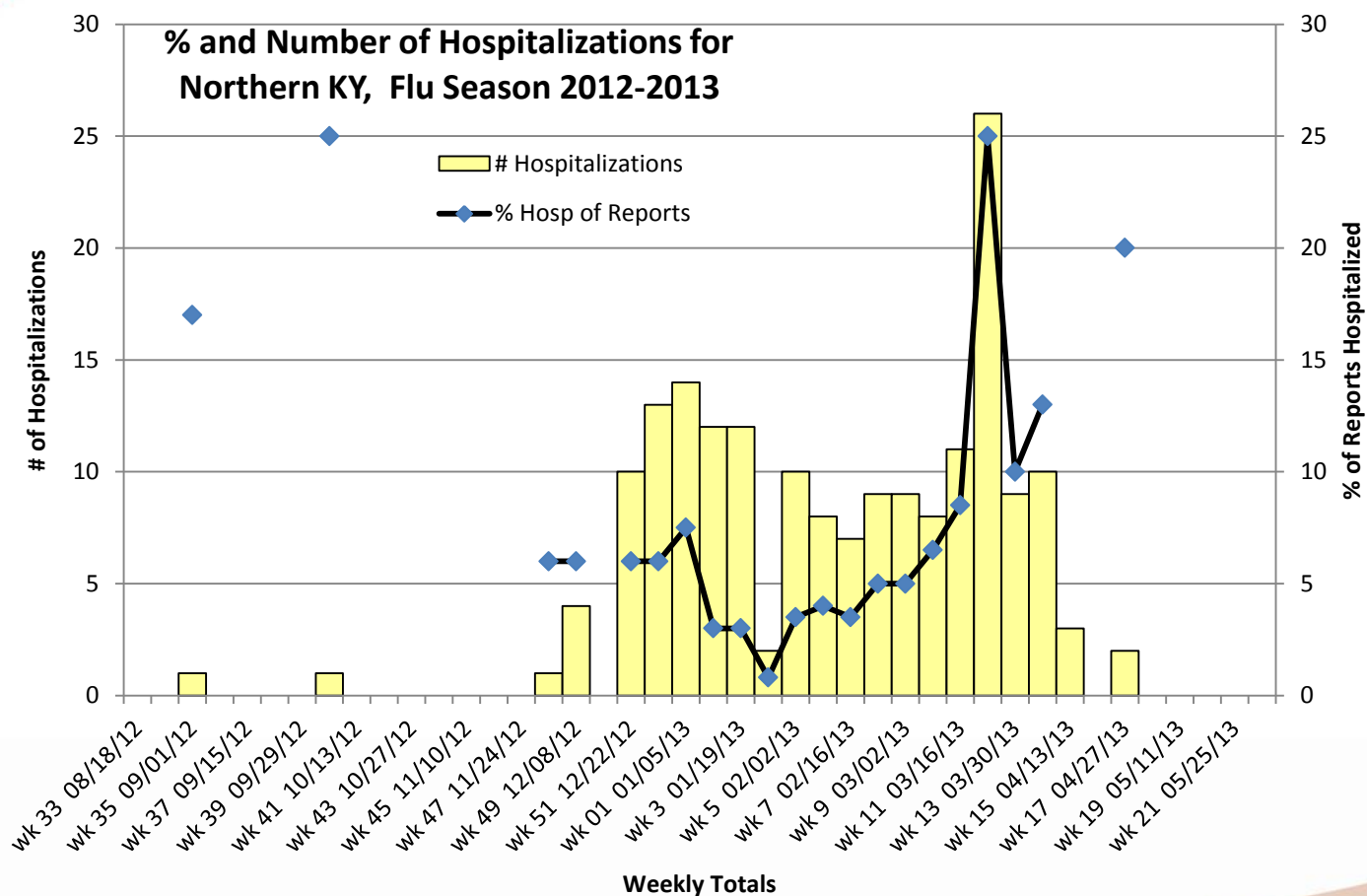
Influenza Hospitalizations for Northern KY 2012-2013 Flu Season



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% Hospitalizations by week, 2012



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Outpatient vs Emergency Department Visits



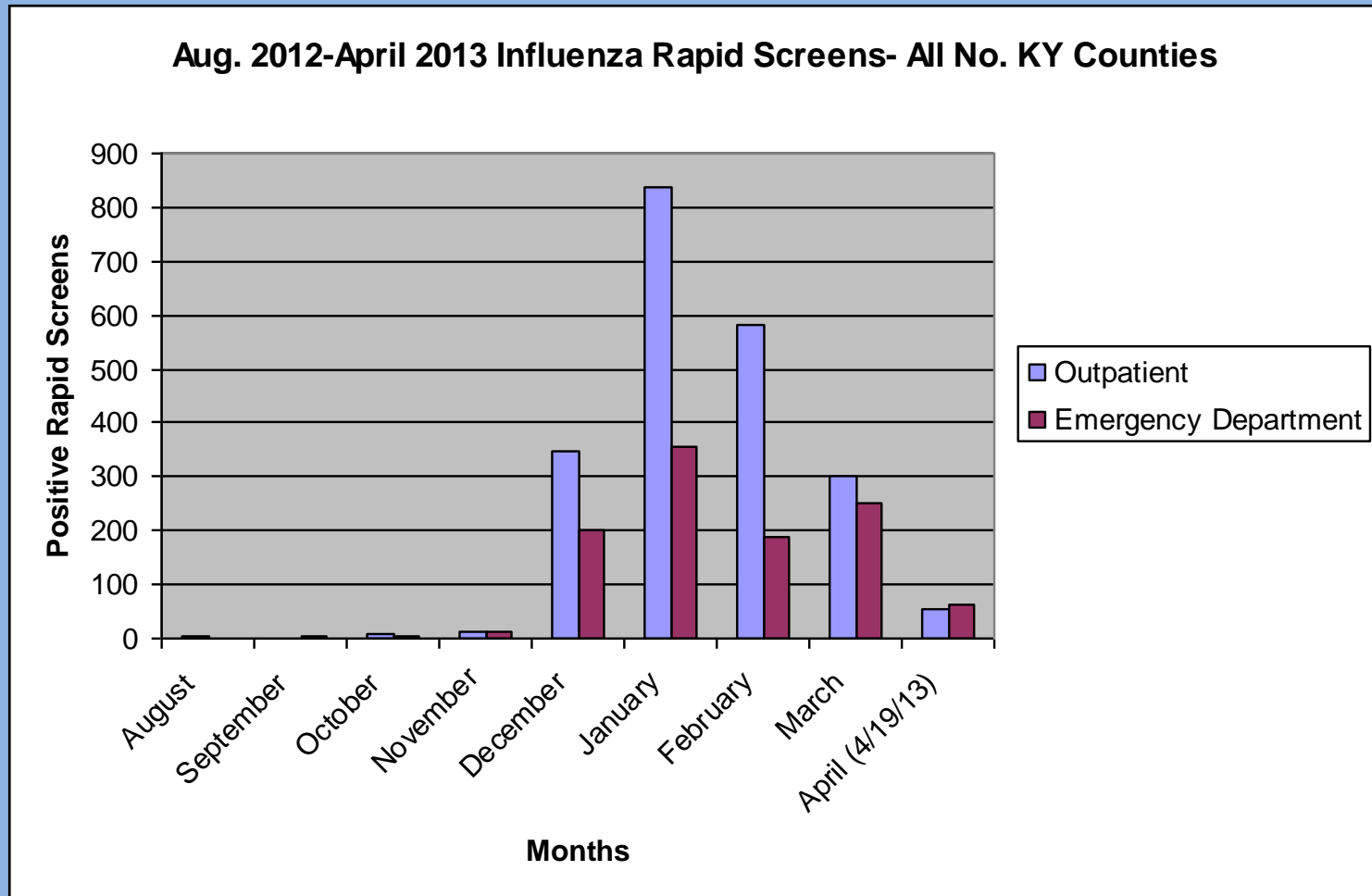
- Intern to Look at this data as well
- Reviewed over 3000 cases



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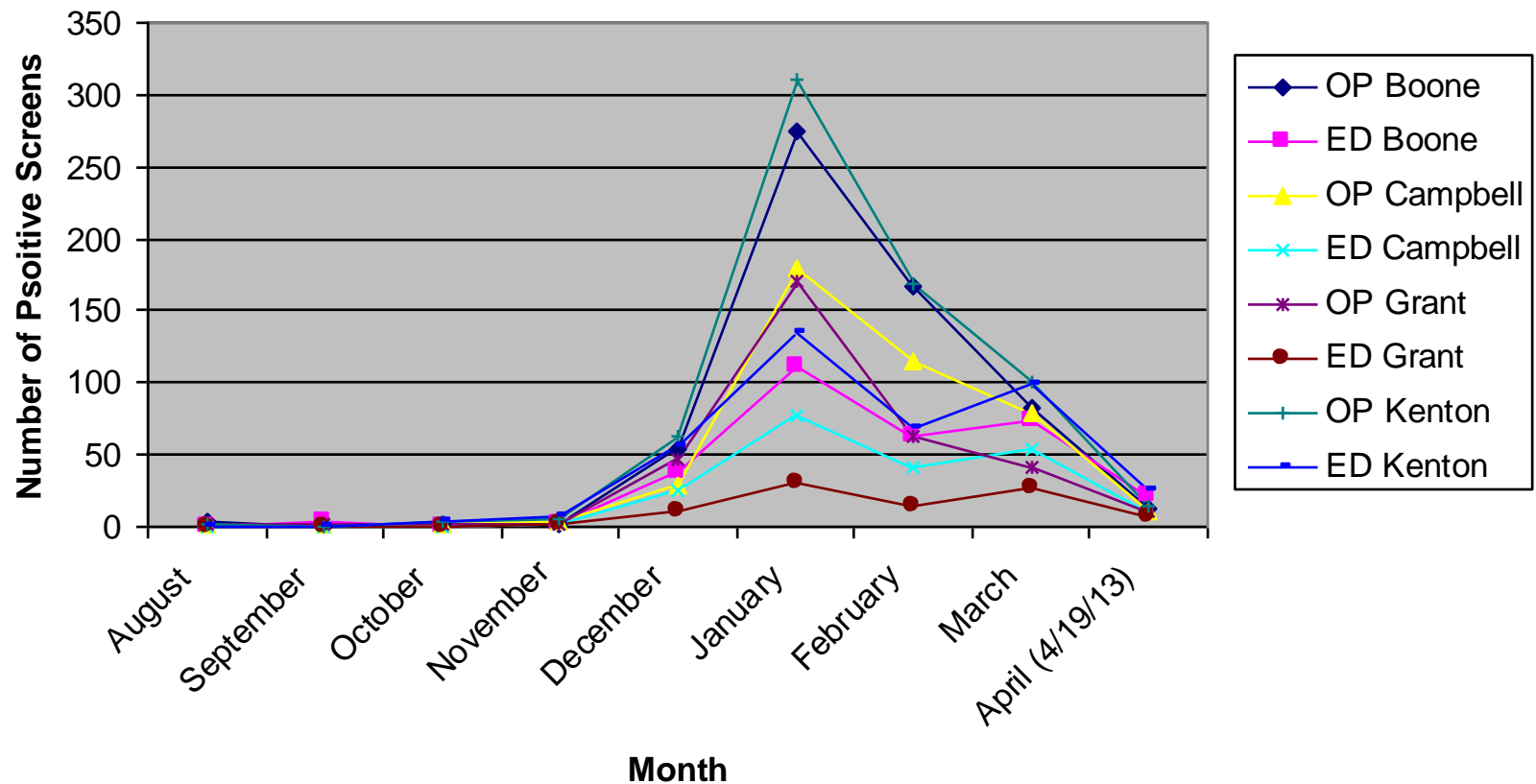


All No. KY Counties – OP and ED



All No KY. Counties OP and ED

Aug. 2012-April 2013 Influenza Rapid Screen - No. KY. Counties - ED
and OP



Syndromic Surveillance

Look for ILI

- 5 School Districts:
 - 9 Total: Elementary, Middle & High School
- Long Term Care Facilities:
 - 4 Different counties (Kenton, Campbell, Owen, Pendleton)
- 1 Pediatric Office
 - 20,000 active patients
- Healthpoint (4 Locations)



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Community News

- Produced by Sophia Black, CDC Associate
- Every other week
- Attached to Flu News
 - Syndromic Surveillance Results
 - Senior Citizens: Encourage Flu Vaccination
 - Current Information

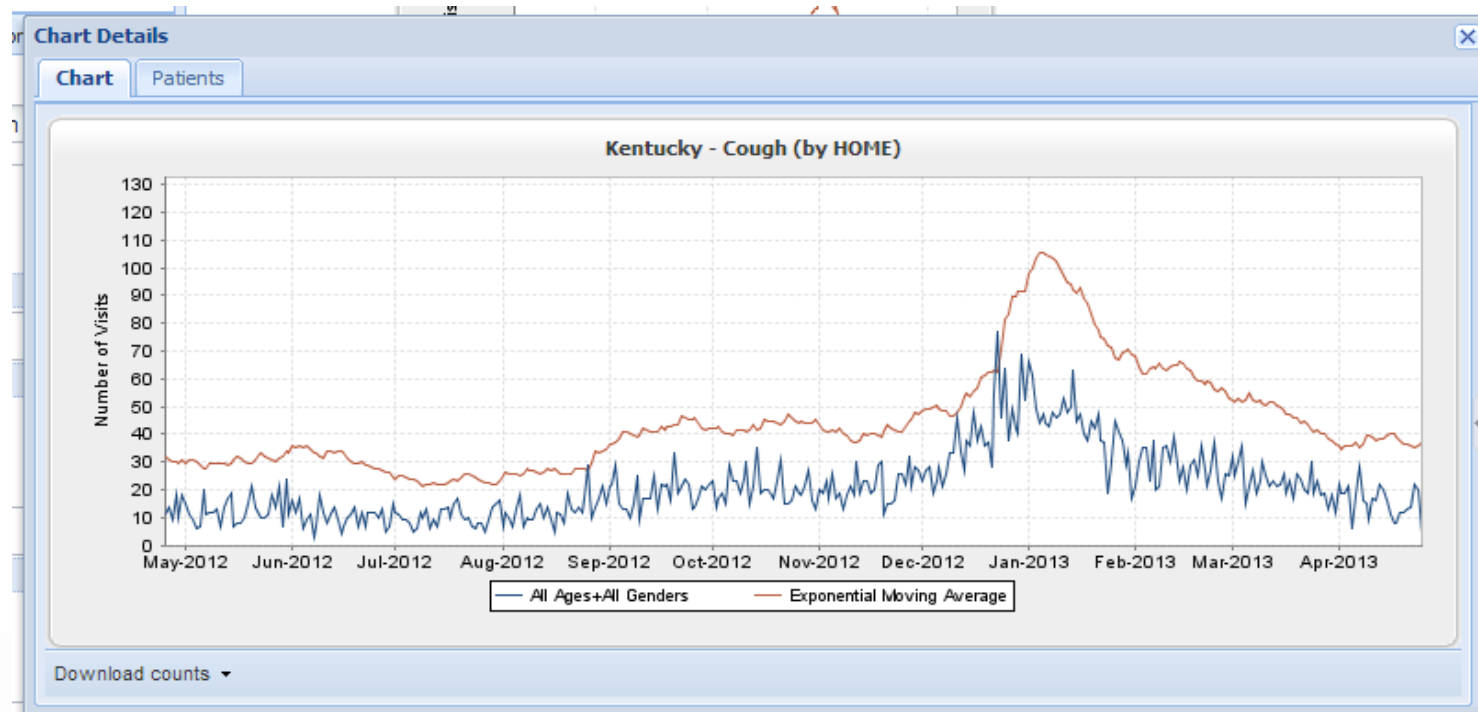


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Epi-Center

- Looking at ER visits Daily:



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Thank You!

Any Questions?



RUN FROM FLU!!!



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